

### ABSTRACT

Featured is a gas control device being configured and arranged so as to control operation of a hot surface igniter so it is warmed-up to ignition temperatures of a gas when a call for heat is made and, following ignition, to control operation of the igniter so it is capable of rapidly re-igniting the gas without having to continuously maintain the igniter at or above gas ignition temperatures. More particularly, the gas control device includes circuitry that controls energization of the igniter for ignition of the gas and, after ignition of the gas is determined to have occurred, controls energization of the igniter so that the igniter can be warmed up to ignition temperature conditions within desired re-ignition time periods. Also featured are systems and apparatuses embodying such control devices as well as methods related thereto.